

# PLC-FM solutions



## PLC-FM SOLUTIONS

The specialists of our company always find the best solutions for companies operating transport and adapt the most advanced industrial electronics solutions. It is a pleasure for us to present the latest product for identification and telemetric data transfer solution realisation of cargo and car trailers, refrigerator trailers, and cargo trains. The construction of the device is designed in such way that the device could be mounted upon the most unfavourable outdoor conditions. The device has a port conforming to IP67 requirements and is fully isolated from environmental impact.

Processor device of high integration PLC-FM (Power Line Communicator for Fleet Management) first of all is created for trailer identification for tractor units and trains of truck trailers. Mounting of such device does not require additional materials, connecting power cables to trailer

and truck. This solution saves many assets for mounting materials and works. It is fully compatible with transport tracking devices GATE-FM210, manufactured by our company.



Trailer recognition



Ingress Protection Rating IP67



User customizable



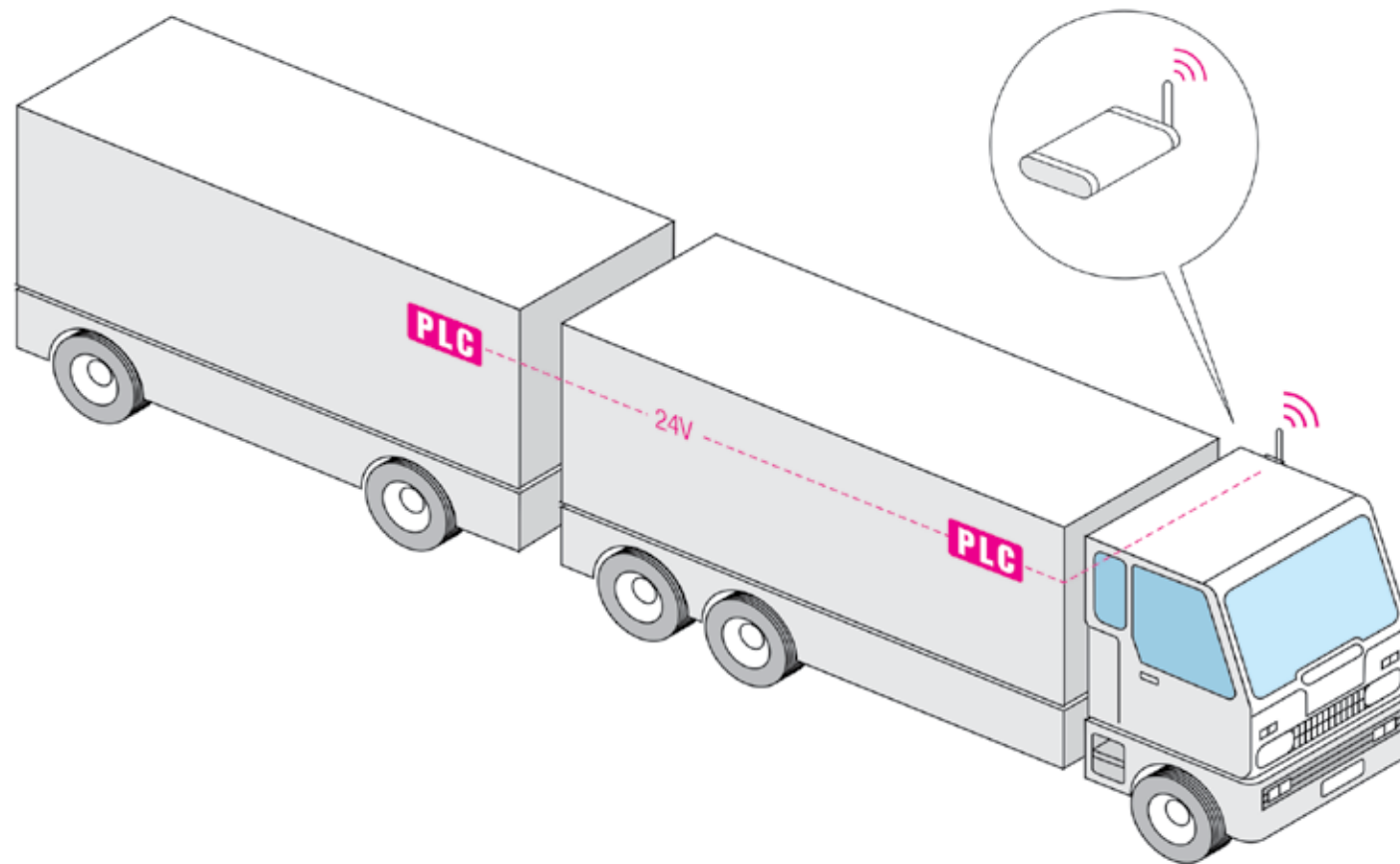
Communication between Truck and Trailer



Low cost installation

## PLC-FM 10

The simplest PLC-FM10 device is used for trailer identification. It has its own ID and transfers this information to GATE-FM device via supply chains.

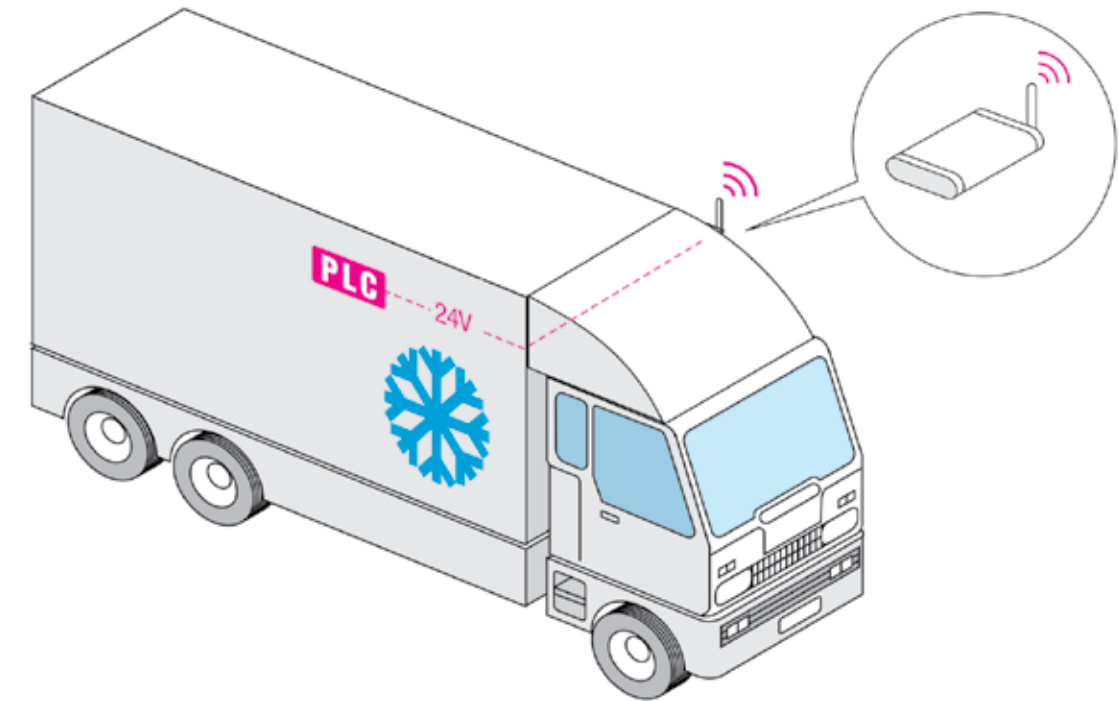


Working supply voltage: DC 8–30 V  
Working environment temperature:  $-40$ – $+85$  °C  
Average power consumption: 40 mW  
1 RS232, 2 digital I/O, 2 analogous inlets (10 bit)

## PLC-FM 20

The smart PLC-FM20 device is intended for refrigerator trailers. Together with the ID function it can measure temperature and transfer it to the controller GATE-FM. If refrigerator is left without truck and works in autonomous mode, the device PLC-FM20 registers temperature and changes in digital inlets; all this is collected in the device's

memory and stored with precise time records until the possibility to transfer data via GSM network. Frequency of records of collected information about temperature is freely programmed. Door opening alarm or additional thermometers can be connected to the device.



Working supply voltage: DC 8–30 V  
Working environment temperature:  $-40$ – $+85$  °C  
Average power consumption: 80 mW  
PLC (Power Line Communicator)  
1 RS232, 2 digital I/O, 2 analogous inlets (10 bit)  
Temperature measurement:  $-40$ – $+85$  °C  $\pm 2$  °C (calibrated  $\pm 0,02$  °C)  
Memory capacity: 16 Mbit  
RTC (Real time clock)

## PLC-FM 20



Trailer recognition

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Communication between Truck and Trailer

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Ingress Protection Rating IP67

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Low cost installation

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User customizable

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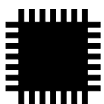
Temperature measuring

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RTC (Real Time Clock)

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Internal memory block for data

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Digital input / output for managing

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External backup battery connection

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## CONTACTS

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